

Deeply embossed fabric - utilises a reserve of fibre in the form of loops to enable formations to be pressed into a sheet of material

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Abstract of DE 4218860 (A1)

Mfr. high performance sheet material with extra formation possibility is achieved by incorporating into the material a reserve of fibre, to execute the formation. The material may be a woven or knitted cloth and film may also be used. There is a reserve in loop formation bound to a basic thread. By stretching the loops at the position of recession, the profile can be formed. This may be done mechanically, and the shapes retained by heat to seal plastic fibres, or an adhesive may be employed. The formation of loops is most easily attained by a knitting process. The basic threads may be hybrid fibres, including glass or carbon fibre. It is an advantage when a thermo-plastic is employed, which melts sufficiently to bind as a single layer into the matrix cloth. The strength is retained by the basic thread. This may be used in the sliver or roving stage, of a continuous filament, or as a mixture of spun fibres. **ADVANTAGE** - The process enables deep recesses or raised profiles to be constructed from sheet material, without tearing the fabric, or creating thin places.

